POWER PRODUCTS

50Hz

mtu FRIEDRICHSHAFEN

SDMO® Power Products from 650 kVA to 3000 kVA

XS 910 K

XS 1000 K

EXEL® VOE RANGE (Version optimised exhaust emission)

GENERAL SPECIFICATIONS

Range	Genset type	Genset specifications 400/230 V(1)						Engine specifications					Alternator		Compact version(3)	
		kVA Cos φ 0,8		kWe ISO 8528*		Engine										
		PRP(5)	ESP(6)	PRP(5)	ESP(6)	kWm net(2)	Cons 75% load (L/h)	Engine type	Cyl.	Bore (mm)	Stroke (mm)	Cyl. (L)	Brand	Type	Dimensions(4) LxWxH (m)	Weight (kg)
EXEL 1	**XS 650 K**	650	715	520	572	565	108	12V2000G23	12 V	130	150	23,9	LS	491 M5	3,89x1,63x1,95	5200
	XS 700 K	700	800	560	616	599	119	12V2000G63	12 V	130	150	23,9	LS	491 M7A	3,89x1,63x1,95	5460
	XS 825 K	825	908	660	726	720	133,5	16V2000G23	16 V	130	150	31,9	LS	491 L9A	4,33x1,77x1,95	6150
	XS 910 K	910	1001	728	801	805	150,6	16V2000G63	16 V	130	150	31,9	LS	491 L10	4,37x1,77x2,19	6250
	XS 1000 K	1000	1100	800	880	895	165	18V2000G63	18 V	130	150	35,8	LS	501 S4	4,57x2,02x2,2	7160
EXEL 2	**XS 1400 K**	1400	1540	1120	1232	1205	223	12V4000G21	12 V	165	190	48,8	LS	501 L 8	3,87x1,84x2,21	9442
	XS 1540 K	1540	1694	1232	1355	1330	249	12V4000G61	12 V	165	190	48,8	LS	501 VL 10	3,96x1,84x2,21	9742
	XS 1850 K	1850	2035	1480	1628	1600	297	16V4000G21	16 V	165	190	65,0	LS	512 S 55	4,32x1,84x2,21	11727
	XS 2000 K	2000	2200	1600	1760	1760	324	16V4000G61	16 V	165	190	65,0	LS	512 M 60	4,42x1,84x2,21	12022
	XS 2001 K	2045	2250	1636	1800	1760	324	16V4000G61	16 V	165	190	65,0	LS	512 L 70	4,52x1,84x2,21	12427
	XS 2500 K	2500	2750	2000	2200	2200	442	20V4000G22	20 V	165	210	89,8	LS	53 S 75	6,0x2,2x2,5	17500
	XS 2750 K	2750	3000	2200	2400	2420	475	20V4000G62	20 V	165	210	89,8	LS	54 S 7	6,5x2,2x2,5	18000

(1) Available voltages cf page 7 (2) Prime Power (PRP) (3) The dimensions and weights are given for a defined generator according to the price list excluding options - Soundproof version, cf p8-11
(4) Dimensions are given without cooling system (5) PRP : Prime Power – Continuous duty 24/24 h under variable load – overload acceptable 1 h / 12 h (ISO 8528 PRP) (6) ESP : Standby Power – Standby duty - Operation under variable load 500 h/year without overload *ISO 8528 : Powers expressed in accordance with prevailing legislation

SDMO® Power Products from 1350 kVA to 3000 kVA

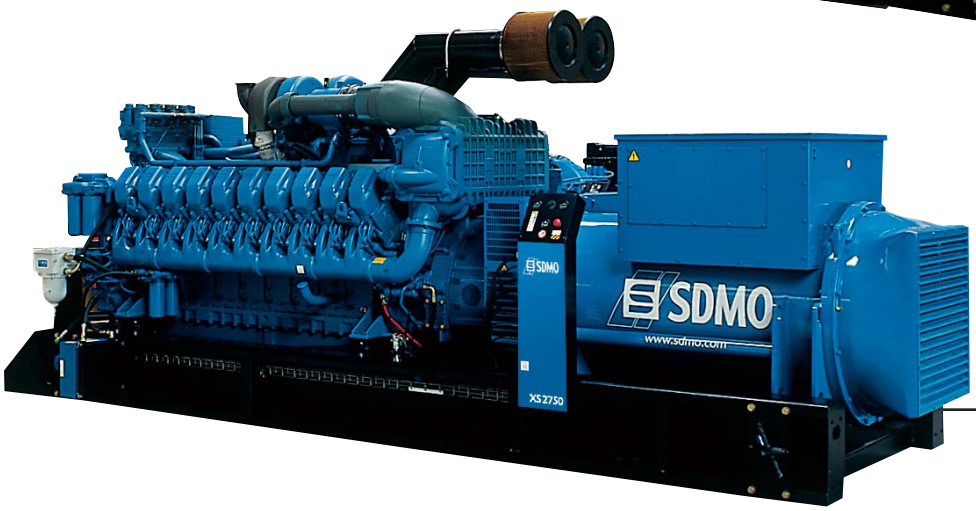
POWER PRODUCTS

50Hz

mtu FRIEDRICHSHAFEN

XS 1540 F

XS 2000 F



XS 2750 F

EXEL® VOC RANGE (Version for minimum fuel consumption)

GENERAL SPECIFICATIONS

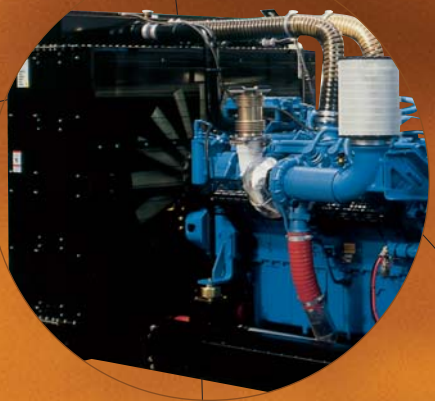
Range	Genset type	Genset specifications 400/230 V(1)						Engine specifications					Alternator		Compact version(3)	
		kVA Cos φ 0,8		kWe ISO 8528*		Engine										
		PRP(5)	ESP(6)	PRP(5)	ESP(6)	kWm net(2)	Cons 75% load (L/h)	Engine type	Cyl.	Bore (mm)	Stroke (mm)	Cyl. (L)	Brand	Type	Dimensions(4) LxWxH (m)	Weight (kg)
EXEL 2	**XS 1400 F**	1350	1485	1080	1188	1205	206	12V4000G21	12 V	165	190	48,8	LS	501 L 8	3,87x1,84x2,21	9442
	XS 1540 F	1500	1650	1200	1320	1330	227	12V4000G61	12 V	165	190	48,8	LS	501 VL 10	3,96x1,84x2,21	9742
	XS 1850 F	1850	2037	1480	1628	1600	272	16V4000G21	16 V	165	190	65,0	LS	512 S 55	4,32x1,84x2,21	11727
	XS 2000 F	2000	2200	1600	1760	1760	296	16V4000G61	16 V	165	190	65,0	LS	512 M 60	4,42x1,84x2,21	12022
	XS 2500 F	2500	2750	2000	2200	2200	405	20V4000G22	20 V	165	210	89,8	LS	53 S 75	6,0x2,2x2,5	17500
	XS 2750 F	2750	3000	2200	2400	2420	444	20V4000G62	20 V	165	210	89,8	LS	54 S 7	6,5x2,2x2,5	18000

(1) Available voltages cf page 7 (2) Prime Power (PRP) (3) The dimensions and weights are given for a defined generator according to the price list excluding options - Soundproof version cf. page 8-11 (4) Dimensions are given without cooling system (5) PRP : Prime Power - Continuous duty 24/24 h under variable load - overload acceptable 1h/12h (ISO 8528 PRP) (6) ESP : Standby Power - Standby duty - Operation under variable load 500 h/year without overload * ISO 8528 : Powers expressed in accordance with prevailing legislation

POWER PRODUCTS

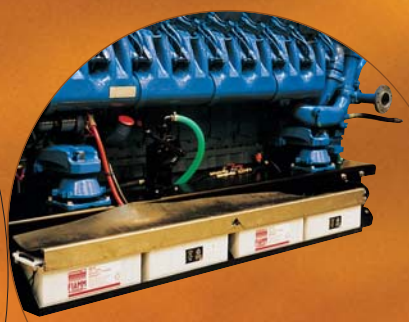
50Hz

automatic oil top-up

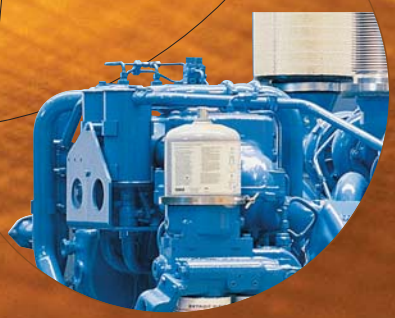


radiator with mechanical fan
for XS 650 K to XS 1000 K

1000L daily tank
with auto pump



batteries mounted



centrifuge filter (doubles the interval
between oil changes)

documentation level C

SDMO®

EQUIPMENTS

Standard and Options

		EXEL 1 MTU 2000 series	EXEL 2 MTU 4000 series	
			VOE	VOC
Motor	4-stroke liquid-cooled diesel engine	●	●	●
	Electronic governor	●	●	●
	Standard air-filter	●	●	●
	Air filter with replacable cartridge	EN 02	EN 02	EN 02
	Coolant heater 220/240 V (without relay)	EN 20	EN 20	EN 20
	Optimisation Emission(1)	●	●	X
	Optimisation Fuel consumption	X	X	●
	Double starter Air/Elec(2)	SO 005	SO 005	SO 005
	Double starter Elec/Elec(2)	SO 007	SO 007	SO 007
Alternator	IP 23 single-bearing alternator, class H insulation	●	●	●
	Anti condensation heater	AL 01	AL 01	AL 01
	Tropical impregnation	AL 05 (11)	●	●
	Isolation and finishing work reinforced	AL 06	AL 06	AL 06
	CTP stator pick up	AL 07	AL 07	AL 07
	CTP bearing pick up	AL 08	AL 08	AL 08
	PT 100 stator pick up	AL 09	AL 09	AL 09
	PT 100 bearing pick up	AL 10	AL 10	AL 10
	Droop kit + 3 function regulator	O(3)	O(3)	O(3)
	Alternator oversizing Type	AO 001B	AO 001B	AO 001B
Genset	Electric panel CE compliance	●	●	●
	Fabricated all welded baseplate with anti-vibration mountings	●	●	●
	Standard colour RAL9005/5007 (black/blue) delivered in shrinkwrap	●	●	●
Available voltages	415-240 V@50 Hz	T51 A1	T51 A1	T51 A1
	400-230 V@50 Hz	●	●	●
	380-220 V@50 Hz	T51 A3	T51 A3	T51 A3
	240-120 V@50 Hz	T51 C1(4)	X	X
	230-115 V@50 Hz	T51 C2(4)	X	X
	220-110 V@50 Hz	T51 C3(4)	X	X
Oil	Supplied with oil and coolant (-30°C)	●	●	●
	Automatic filling up oil system with oil tank	EN 18	EN 18	EN 18
	Oil centrifuge filter	X	EN 19	EN 19
	Lub oil drain pump	●	●	●
Cooling	Radiator for "air on" temperature 46°C maxi with air cooler(6)	●(5)	X	X
	Radiator for "air on" temperature 50°C maxi with air cooler(6)	●(4)	X	X
	Mounted radiator for "air on" temperature 40°C (depending on version) with drain cock(6)	X	●	X
	Mounted radiator for "air on" temperature 50°C (depending on version) with drain cock(6)	X	X	●
	Electrical louvres	X	CS 003	CS 003
	Delivered without coolant	**FD 11**	**FD 11**	**FD 11**
	Protection mesh for fan and revolving parts	●	●	●
	Front rad protection	EN 14	X	X
Exhaust	Stainless steel bellows	●	●	●
	Silencer 9 dB(A) supplied separately	EN 07	EN 07	EN 07
	Silencer 29 dB(A) supplied separately	EN 08	EN 08	EN 08
	Silencer 40 dB(A) supplied separately	EN 09	EN 09	EN 09
	Heat hand protection	CEL 02	X	X
Starting	Starter and charge alternator 24 V	●	●	●
	Non-supply charge alternator	X	EN 17	EN 17
	Battery with cables and battery tray	SO 001	SO 001	SO 001
	Non-supply of batteries and tray	●	●	●
	Battery isolator	EN 16	EN 16	EN 16
Fuel	Generator without tank	●	●	●
	Tank with retent. bund 500 L	FD 06	FD 06	FD 06
	Tank with retent. bund 1000 L	FD 07	FD 07	FD 07
	Retention bund alarm	FD 14	FD 14	FD 14
	Auto. Fuel fill kit (1 pump 1m³/H)	FD 08	FD 08	FD 08
	Auto. Fuel fill kit (2 pump 1m³/H)	FD 09	FD 09	FD 09
	Auto. Fuel fill kit (2 pump 4m³/H)	FD 10	FD 10	FD 10
	W separator fuel prefilter	●	●	●
	Fuel cooling radiator	X	EO 006	EO 006
Miscellaneous	Technical documentation language to choice(7) level A(8) (1 copy)	●	●	●
	Technical documentation language to choice(7) level A(8) (extra copy)	AD 23	AD 23	AD 23
	Technical documentation English version level B(9)	AD 31	AD 31	AD 31
	Technical documentation English version level C(10)	AD 41	AD 41	AD 41
	GENSERVICE spare parts	O	O	O

● Standard X Impossible O Different options available EN 01 Option code **EN 01** Free option

(1) In compliance with TA LUFT requirements (2) No control panel available for this option (3) Coupling current transformer not necessary with Mics KERYS (4) Only on XS 650, 700 and 825 (5) Not available on XS 650, 700 and 825
(6) Outdoor ambient temperature, reduce of 7°C approximately (7) French or english (8) Level A documentation including : Maintenance manual and diagrams, Genset user manual and description of switchboard, Genset installation guide
(9) Level B including : level A + list of engines and alternator parts (english only) (10) Level C including : Level B + workshop manual (english only) (11) Standard for XS 1000

Contenergy®

From 650 to 2250 KVA, SDMO® offers great adaptability with the Contenergy® concept.
Three standard versions are proposed, depending on your requirements,
and enable you to benefit from reduced costs and delivery times.

Range	Genset type	Engine	Silent 85-87 dB(A)@1M	Silent 84-86dB(A)@1M	Super Silent® 78-80 dB(A)@1M	Super Silent® 82-84dB(A)@1M
EXEL	XS 650 - XS 700	12 V 2000	ISO 20 SI	X	CIR 20 SSI	X
	XS 825 - XS 910	16 V 2000	ISO 20 SI	X	CIR 20 SSI	X
	XS 1000	18 V 2000	ISO 20 SI	X	CIR 20 SSI	X
	XS 1400 - XS 1540	12 V 4000	ISO 40 SI	X	EUR 40 SSI	CIR 20 SSI
	XS 1850 - XS 2000 - XS 2001	16 V 4000	X	EUR 40 SI	EUR 40 SSI	X

For XS 2500 K and XS 2750 K, please contact us

ISO 20

The ISO Contenergy® are designed in accordance with dimensions defined by the ISO/TC104(1) standards. This design enables during transport to endure without damage high pressures and big loads and to travel by boat without specific constraints.
Two sizes are available : 20 and 40 feet High Cube.

(1) The ISO / TC 104 standard includes the ISO 668, ISO 1496-1, ISO 830, ISO 1161, ISO 3874, ISO 6346 standards and ensures the CSC certification.

Standards containers

CIR 20

The CIR version is built on an ISO 20' Contenergy® base. This very compact model is more specifically suited for rental and mobile applications thanks to its high capacity and its low sound level.
Compliance with the ISO/TC104[1] standard upon request.

EUR 40

Dedicated to generator sets fitted with MTU-DDC Series 4000 motor, the EUR Contenergy® offers, for a single base, two noise level variations : Silent and Super Silent.
This soundproofed version also offers features such as side doors or a daily tank.

50Hz

Contenergy®

The CONTENERGY containers can be installed on a concrete slab (fitted with ducts for the cabling and piping) or simply on a hard surface. This CONTENERGY concept is very simple and economical, thanks to its integrated cooling system, silencer and sound traps.

You have many installation requirements and SDMO knows it. It is for this reason that our containers are designed, in particular, to withstand dificult climatic conditions. Whether your installation needs to withstand extreme cold conditions or has to operate in a tropical climate, tell us what you need, we probably have the solution to your problem.

International standards-compliant trailers are also available, thus enabling you to transform your generator set into a mobile unit (contact us for further details).

Standard containers

Standard & Options		SILENT			SUPER SILENT®	
		ISO 20 SI	ISO 40 SI	EUR 40 SI	CIR 20 SSI	EUR 40 SSI
Base	Base girder	●	●	●	●	●
	Starter, charging alternator 24 V	●	●	●	●	●
	Batteries with electrolyte	SO001	SO001	SO001	SO001	SO001
	Standard air-filter	●	●	●	●	●
	Lub oil drain pump	●	●	●	●	●
Specifications	Sound-proofing type	SI	SI	SI	SSI	SSI
	Highly efficient silencer built in - attenuation 30 db(A)	●	●	●	●	●
	Floor	Bois	Bois	Bois	Acier étanche	Bois
	Number of doors	1	1	2	2	2
	Air outlet galvanized steel rain guard grid	CT 005	CT 005	●	●	●
	Emergency light and emergency fuel valve	CT 007	CT 007	CT 007	CT 007	CT 007
	Exhaust exit on flanges	**CT 011**	**CT 011**	**CT 011**	**CT 011**	**CT 011**
	White paint finishing (RAL 9010)	●	●	●	●	●
Fuel	Catch pit under the whole of the container	CT 014	CT 014	CT 014	CT 014	CT 014
	Tank without retent. bund 500 L	●	X	X	●	X
	Tank with retent. bund 500 L	X	●	●	X	●
	Tank with retent. bund 2347 L + client connection terminal strip	X	X	X	CT 003	X
	Auto. Fuel fill kit (1 pump 1 m³/H)	CT 008	CT 008	CT 008	CT 008	CT 008
	Auto. Fuel fill kit (2 pump 1 m³/H)	X	CT 009	CT 009	X	CT 009
	Auto. Fuel fill kit (2 pump 4 m³/H)	X	CT 010	CT 010	X	CT 010
Panels	Electric panel EC compliance	●	●	●	●	●
	Panel Mics TELYS	CM 40	CM 40	CM 40	CM 40	CM 40
	Panel Mics KERYS	CA 600	CA 600	CA 600	CA 600	CA 600
Dimensions	Length (mm)	6058	12192	6058	12192	12192
	Width (mm)	2438	2438	2438	2438	2438
	Height (mm)	2896	2896	2896	2896	2896

● Standard X Impossible EN 01 Option code **EN 01** Free option

M 427

NEW

PRESENTATION

SDMO now offers a sound-proof hood for your EXEL generator set fitted with an MTU 12V2000 or 16V2000 motor. You thus optimise your installation's footprint and can even fit the assembly into a 40" High Cube container in order to facilitate transport.

CHARACTERISTICS

Genset type	Canopy	Tank (L)	Dimensions L x w x h (m)	Weight(1) (kg)	Sound level - 50 Hz dB(A)@1m	dB(A)@7m
XS 650 K	427	930	6,40x2,17x2,72	7876	79,9	70
XS 700 K	427	930	6,40x2,17x2,72	8011	80,4	71
XS 825 K	427	930	6,40x2,17x2,72	8579	82,8	73,2
XS 910 K	427	930	6,40x2,17x2,72	8709	83,5	74

(1) Dry weight, without fuel

POWER PRODUCTS
50Hz

Three control cabinets are available in our 650 to 3,000 kvA range : the M80, the Mics TELYS and the Mics KERYS. In order to guarantee a high degree of modularity and standardisation, each optional peripheral device (aero, RJ, oil top-up) possesses its own protection.
For plants, an auxiliary cabinet containing the mains detection and preheating controls can be fitted, along with separate cabinets.

M 80

PRESENTATION

The M80 cabinet is a direct display control panel. Its various dials provide a global overview of our generator set's basic parameters.

SPECIFICATIONS

		M 80
Instruments	Tachometer (54 mm)	●
Engine parameters	Timer	●
	Oil pressure gauge	●
	Water temperature display	○
	Oil pressure display	○
Operation	Emergency stop	●
Miscellaneous	CE Compliance	●
	Client connection terminal strip	●

● Standard ○ Option code

MICS TELYS

PRESENTATION

A major component of our range of control units, the Mics TELYS is a standard addition to our generator sets from 200 kVA upwards its user-friendly interface and range of features allow careful monitoring of your installation.

1 "ON" KEY
with integrated LED
(after automatic extinction)

LCD SCREEN
incorpored back-lighting,
featuring 8 lines x 21 characters

4 electrical QUANTITIES
AND ENGINE
PARAMETERS KEYS

8 DISPLAY LEDs
des alarmes, defauts, états

1 - Oil pressure fault (R)
2 - Water temperature fault (R)
3 - Failure to start fault (R)
4 - Overspeed fault (R)
5 - Set ready to output (G)
6 - Charging alternator fault (R)
7 - General alarm (Y)
8 - General fault (R)

(R = red, G = Green, Y = Yellow)

15 PROGRAMMING KEYS
NUMBER KEY PAD
(0 TO 9)

4 OPERATING MODE
SELECTION KEYS
with integrated selection LEDs

2 ERROR RESET
AND LED TEST KEYS

2 generating SET REGULATION
OUTPUT KEYS (+/-)

SPECIFICATIONS

Measurements	Line voltages in Volts	● LCD
	Single voltages in Volts	● LCD
	Phase currents in Amps	● LCD
	Neutral current in Amps	● LCD
	Frequency in Hertz	● LCD
	All generating set states, all starter phases	● LCD
	Analogical indicator	○
	Ammeter battery	○
Engine Parameters	Indication of engine speed	● LCD
	Indication of battery voltage	● LCD
	Elapsed hour meter	● LCD
Operation	Powering up	●
	Fuel solenoid-operated valve control	●
	Starter control	●
	Plug preheating control	○
	Water preheating control	○
	Mains contactor control	○ (3)
	Generating set contactor control	○ (3)
Operation and/or safety lights	Oil pressure fault	●
	Water temperature fault	●
	Fail to start fault	●
	Overspeed fault	●
	Set ready for load	●
	Charging alternator fault	●
	General alarm	●
	General fault	●
	Panel lamp, 22 dia.	●
	STOP/MANU/AUTO/TEST mode	●
	Generating set side contactor closed	○ (3)
	Mains side contactor closed	○ (3)
	Any faults or any alarms messages	● LCD

Safety devices	Oil pressure fault	●
	Water temperature fault	●
	Emergency stop fault	●
	Overload or short-circuit alarm or fault	● (2)
	Min/max battery voltage alarm or fault	● (2)
	Min/max alternator voltage alarm or fault	● (2)
	Min/max alternator frequency alarm or fault	● (2)
	Overspeed fault	●
	Differential relay present fault	○ (3)
	Differential triggering alarm or fault	○ (2+3)
Automation	Automatic standby	●
	Automatic extinction	●
	4 modes	●
	Engine stopping for cooling	●
	Voltage and speed stabilization	●
	Plug preheating	○
	ATS changeover presence choice	○ (1)
	Mains contactor position return	○ (1)
	Generating set and mains contactor position return	○ (1)
	Generating set contactor manual closing	○ (1)
	Generating set contactor manual opening	○ (1)
	Starting on clock	○ (1)
	External starting order	○ (1)
	Mains sensing 3-ph	○ (4)
Miscellaneous	Test LEDs	●
	Fault reset	●
	External AMF predisposition	○
	3-phase with or without neutral, 2-phase or single-phase use	● (5)
	12V battery charger	○
	GES Pack(6) fitted inside the genset(7)	○
	Differential protection with time and sensitivity adjustment	○ (2)
	Alarm hooter	○

● Standard ○ Option code
● LCD Standard with LCD message

(1) Control and automatisms installed, but necessity to have the option "External AMF predisposition" and the possible configuration of one parameter on the MICS® Telys (2) The choice Alarm or Fault is programmed through the keyboard (3) The earth fault protection is ensured by one external module connected to the CB12 card and through connecting of one tiny relay on the CB12 card. A local configuration is also needed (4) MICS DS mains detection is proposed as a base in the source inverter. In the case whereby the source inverter is not chosen, the MICS DS module can be moulded in the panel (5) Choice is revised through programming - The alternator's voltage reference connecting wire modification is necessary (6) For details, please consult us (7) NF E37312 standard

wintelys

This software developed by SDMO enables the user to set up the dialog between the Mics TELYS panel fitted on our gensets and the PC type computer on which it is installed in order to control from a distance the operating system. Depending on the configuration of your installation, you can select from 4 types of connection, the one that best suits your needs : local mode supervision, Switched Telephone Network remote management, Ethernet remote management or SGM network remote management. For further information concerning Wintelys, please contact an SDMO reseller.

NEW

MICS KERYS

PRESENTATION

The Mics KERYS is a user-friendly and intuitive tool that possesses a very broad range of features. It is fitted as standard on all generator sets intended foe coupling applications and can be fitted as an option on all of our other applications. in order to meet all of the requirements of low or high voltage power plants, the Mics KERYS can be fitted into a control desk, directly onto the generator set, or in a separate cabinet.
It complies with EC, UL and CSA standards.

Control keypad
with display LED

Display screen
TFT LCD 7,4 in
Colour graphical display
Touch screen
Dimensions 154 x 86 mm

- Manu mode selection
- Stop mode selection
- Auto mode selection
- Open/Close GE circuit breaker
- Activate/Deactivate test
- Open/Close network circuit breaker
- LED test
- Stop horn
- Erase anomalies

Configuration keypad
For configuration, navigation and direct access to screens

Control keypad
with display LED

The Mics KERYS is available in two versions. The basic GUI (Graphical User Interface) is made up of a monochrome LCD screen and a function keypad. The top of the range Mics KERYS tactil version possesses a TFT colour touch screen. Both of these versions provides a user-friendly configuration, operation or diagnostic interface.

SPECIFICATIONS

The Mics KERYS possesses all of the features of the Mics TELYS (cf. table page 13)

ADDITIONAL SPECIFICATIONS

Measurements
Powers (active, reactive)
Power factor in the various dials
Active and reactive energies
Synchronism (phase, voltage and frequency deviation)
Voltage and current harmonics

Protective measures
Overload, short-circuit
Line current directive
Neutral current
Reverse component
Voltage hold-back
Thermal image
Voltage max. and min.
Presence and absence of voltage
Frequency max. and Min.
Active poxer maximum
Active and reactive reverse power
Homopolar current and homopolar current directive
Homopolar voltage and restricted earth
Vector jump, mini Z and dF/dt

Synchronisation
Manual and automatic
Frequency and voltage equalisation

Control
Speed and voltage
Frequency and voltage setpoint switching
Frequency and voltage setpoint adjusment
Active and reactive power setpoint adjustment
Active and reactive power ramp-up
Active and reactive power distribution
Active and reactive power lock-out
manual speed and voltage control

Communication
Local or remote mode
On board Web site
RS485 link
Ethernet (local mode) and Internet (remote mode)

Standard added benefits
Failure troubleshooting assistance
Maintenance assistance (logs, automatic Email, etc.)
Electrical and mechanical parameter graphs and logs
Load impact management
Addition of extra logics with no external tools

Coupling
A612 : Generator set without grid
A622 : Generator set with INS and grid, no coupling
A633 : Production plant without grid
A634 : Production plant with grid and INS (no grid coupling)
A641 : Generator set with permanent grid coupling, no INS - grid coupling + resale
A642 : Generator set with permanent grid coupling, no INS - Grid coupling + 0 kW power cap on grid
A651 : Generator set with fading grid coupling and INS
A661 : Generator set with permanent grid coupling and INS WEB site

WEB SITE
The Mics Kerys and Kerys tactil are provided as standard with an on-board web site. This site and its 60 resident screens enables you to completely check your installation (operation and setup), whatever the distance.

Electrical variable display screen

For further information, check the Mics KERYS documentation or contact your SDMO sales representative.

POWER MODULES AIPR

CHARACTERISTICS

Each genset can be delivered with a protection panel.
This panel is fitted on the generating set frame with the connecting cables onto the alternator. Depending on the type and power of the engine, the panel AIPR can be positioned wether on the right or left hand side of the generating set.

AIPR Rating	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
WITH A FRONT MANUAL COMMAND							
3 poles power circuit breaker Compact type	●	●	●	●	X	X	X
3 poles power circuit breaker Open type	X	X	X	X	●	●	●
4 poles power circuit breaker Compact type	O	O	O	O	X	X	X
4 poles power circuit breaker Open type	X	X	X	X	O	O	O
OPTION MOTORIZED CONTROL *							
With 3 or 4 poles circuit breaker Only open type	O	O	O	O	O	O	O
Voltage 208-440V	●	●	●	●	●	●	●
Option power auxiliaries panel (**)	O	O	O	O	O	O	O
Bus bars	●	●	●	●	●	●	●
Remote control terminal box	●	●	●	●	●	●	●
Protection index	IP207	IP207	IP207	IP207	IP207	IP207	IP207
Dimensions : (without optional panel) height (mm)	1260	1260	1260	1260	1260	1260	1260
width (mm)	665	665	665	665	665	665	665
depth (mm)	360	360	360	360	360	360	360
Dimensions : (with optional panel) height (mm)	1664	1664	1664	1664	1664	1664	1664
width (mm)	665	665	665	665	665	665	665
depth (mm)	360	360	360	360	360	360	360

(*) The motorized remote control includes : one XF coil, one MX coil, and one AC engine.
(**) The optional panel "power auxiliary" is fitted above the main panel. It is used for the genset auxiliaries power connection, i.e :
- air cooler supply
- fuel pump supply

SEPARATE "MAINS/STANDBY" CHANGEOVERS

GENERAL SPECIFICATIONS

		INS 1000 A	INS 1600 A	INS 2000 A	INS 2500 A	INS 3200 A
	2 poles	X	X	X	X	X
	3 poles	●	●	●	●	●
	4 poles	●	●	●	●	●
VOLTAGE	208-440V (3-phase)	●	●	●	●	●
VOLTAGE	220-240V (1-phase)	X	X	●	●	●
CONNECTION	Changeover by contactor	●	●	X	X	X
CONNECTION	Changeover by motorised CB	X	X	●	●	●
CONNECTION	Protection of auxiliaries (1)	C / B	C / B	C / B	C / B	C / B
	Terminals	X	X	X	X	X
	Copper bars	●	●	●	●	●
DIMENSIONS	Height (mm)	1200	2000	2000	2000	2000
DIMENSIONS	Width (mm)	1200	1200	800	800	800
DIMENSIONS	Depth (mm)	400	500	800	800	800
	Adjustable mains sensing relay	●	●	●	●	●
	Wall panel IP 54	●	X	X	X	X
	Free-standing panel IP 54	X	●	●	●	●

● Standard O Option X Impossible (1) Protection of auxiliaries : mains power detection, panel relay, water heater, battery charger